BUPROPION HYDROCHLORIDE - bupropion hydrochloride tablet, film coated, extended release

REMEDYREPACK INC.

WARNING

Suicidality and Antidepressant Drugs

Use in Treating Psychiatric Disorders: WARNINGS: Clinical Worsening and Suicide Risk in Treating Psychiatric Disorders, PRECAUTIONS: Information for Patients, and PRECAUTIONS: Pediatric Use).

Use in Smoking Cessation T reatment: Wellbutrinbupropion hydrochloride extended-release tablets (SR), and Wellbutrin XLare not approved for smoking cessation treatment, but bupropion under the name Zybanis approved for this use. Serious neuropsychiatric events, including but not limited to depression, suicidal ideation, suicide attempt, and completed suicide have been reported in patients taking bupropion for smoking cessation. Some cases may have been complicated by the symptoms of nicotine withdrawal in patients who stopped smoking. Depressed mood may be a symptom of nicotine withdrawal. Depression, rarely including suicidal ideation, has been reported in smokers undergoing a smoking cessation attempt without medication. However, some of these symptoms have occurred in patients taking bupropion who continued to smoke.

All patients being treated with bupropion for smoking cessation treatment should be observed for neuropsychiatric symptoms including changes in behavior, hostility, agitation, depressed mood, and suicide-related events, including ideation, behavior, and attempted suicide. These symptoms, as well as worsening of pre-existing psychiatric illness and completed suicide have been reported in some patients attempting to quit smoking while taking Zybanin the postmarketing experience. When symptoms were reported, most were during treatment with Zybanbut some were following discontinuation of treatment with Zyban Advise patients and caregivers that the patient using bupropion for smoking cessation

Advise patients and caregivers that the patient using bupropion for smoking cessation should stop taking bupropion and contact a healthcare provider immediately if agitation, hostility, depressed mood, or changes in thinking or behavior that are not typical for the patient are observed, or if the patient develops suicidal ideation or suicidal behavior.In many postmarketing cases, resolution of symptoms after discontinuation of Zyban The risks of using bupropion for smoking cessation should be weighed against the benefits of its use. Zybanhas been demonstrated to increase the likelihood of abstinence from smoking for as long as 6 months compared to treatment with placebo. The health benefits of quitting smoking are immediate and substantial. (See WARNINGS: Neuropsychiatric Symptoms and Suicide Risk in Smoking Cessation TreatmentandPRECAUTIONS: Information for Patients.)

DESCRIPTION

dimethylethyl)amino]-1 -propanone hydrochloride. The molecular weight is 276.2. The molecular formula is C13H18CINOBupropion hydrochloride powder is white, crystalline, and highly soluble in water. It has a bitter taste and produces the sensation of local anesthesia on the oral mucosa. The structural formula is:



Bupropion hydrochloride extended-release tablets (SR) are supplied for oral administration as 100 mg, 150 mg, and 200 mg white to off-white, film-coated, extended-release tablets. Each tablet contains the labeled amount of bupropion hydrochloride and the following inactive ingredients: hydroxypropyl cellulose, microcrystalline cellulose, colloidal silicon dioxide, stearic acid, magnesium stearate, and diluted hydrochloric acid. The film coating contains lactose monohydrate, hydroxypropyl cellulose, titanium dioxide, and polyethylene glycol.

CLINICAL PHARMACOLOGY

Pharmacodynamics: Stupropion is a relatively weak inhibitor of the neuronal uptake of norepinephrine and dopamine, and does not inhibit monoamine oxidase or the re-uptake of serotonin. While the mechanism of action of bupropion, as with other antidepressants, is unknown, it is presumed that this action is mediated by noradrenergic and/or dopaminergic mechanisms.

mechanisms.

Pharmacokinetics: Bupropion is a racemic mixture. The pharmacologic activity and pharmacokinetics of the individual enantiomers have not been studied. The mean elimination half-life (of bupropion after chronic dosing is 21 (hours, and steady-state plasma concentrations of bupropion are reached within 8 days. In a study comparing chronic dosing with bupropion hydrochloride extended-release tablets (SR) 150 mg twice daily to the immediate-release formulation of bupropion at 100 mg 3 times daily, peak plasma concentrations of bupropion at steady state for bupropion hydrochloride extended-release tablets (SR) were approximately 85% of those achieved with the immediate-release formulation. There was equivalence for bupropion AUCs, as well as equivalence for both peak plasma concentration and AUCs for all 3 of the detectable bupropion metabolites. Thus, as tseady state, bupropion hydrochloride extended-release tablets (SR), given twice daily, and the immediate-release formulation of bupropion, given 3 times daily, are essentially bioequivalent for both bupropion and the 3 quantitatively important metabolites.

Absorption:Following oral administration of bupropion hydrochloride extended-release tablets (SR) to healthy volunteers, peak plasma concentrations of bupropion are achieved within 3 hours. Food increased Cmax and AUC of bupropion by 11% and 17%, respectively, indicating that there is no clinically significant food effect.

Distribution:In vitro tests show that bupropion is 84% bound to human plasma proteins at

Distribution:In vitro tests show that bupropion is 84% bound to human plasma proteins at concentrations up to 200 mcg/mL. The extent of protein binding of the hydroxybupropion metabolite is similar to that for bupropion, whereas the extent of protein binding of the threohydrobupropion metabolite is about half that seen with bupropion.

Metabolis m:Bupropion is extensively metabolized in humans. Three metabolites have been shown to be active: hydroxybupropion, which is formed via hydroxylation of the tert-butyl group of bupropion, and the amino-alcohol isomers threohydrobupropion and erythrohydrobupropion, which are formed via reduction of the carbonyl group. In vitro findings suggest that cytochrome P450IIB6 (CYP2B6) is the principal isoenzyme involved in the formation of hydroxybupropion, while cytochrome P450 isoenzymes are not involved in the formation of threohydrobupropion. Oxidation of the bupropion side chain results in the formation of a glycine conjugate of metachlorobenzoic acid, which is then excreted as the major urinary metabolite. The potency and toxicity of the metabolites relative to bupropion have not been fully characterized. However, it has been demonstrated in an antidepress ant screening test in mice that hydroxybupropion is one half as potent as bupropion, while threohydrobupropion and erythrohydrobupropion are 5-fold less potent than bupropion. This may be of clinical importance because the plasma concentrations of the metabolites are as high or higher than those of bupropion.

Because bupropion is extensively metabolized, there is the potential for drug-drug interactions, particularly with those agents that are metabolized by or which inhibit/induce the cytochrome P450IIB6 (CYP2B6) isoenzyme, such as ritonavir. In a healthy volunteer study, ritonavir at a dose of 100 mg twice daily reduced the AUC and Cmax of bupropion by 22% and 21%, respectively. The exposure of the hydroxybupropion metabolite was decreased by 23%, the threohydrobupropion decreased by 38% and the erythrohydrobupropion decreased by 48%.

the cryumonyarouphropion decreased by 40 %.

In a second healthy volunteer study, ritonavir at a dose of 600 mg twice daily decreased the AUC and the Cmax of bupropion by 66% and 62%, respectively. The exposure of the hydroxybupropion

metabolite was decreased by 78%, the threohydrobupropion decreased by 50% and the

erythrohydrobupropion decreased by 68%. In another healthy volunteer study, KALETRA*(lopinavir 400 mg/ritonavir 100 mg twice daily) decreased bupropion AUC and Cmax by 57%. The AUC and Cmax of hydroxybupropion wer decreased by 50% and 31%, respectively, (see PRECAUTIONS: Drug Interactions).

Although bupropion is not metabolized by cytochrome P450IID6 (CYP2D6), there is the potential for drug-drug interactions when bupropion is coadministered with drugs metabolized by this isoenzyme (seePRECAUTIONS: Drug Interactions).

Following a single dose in humans, peak plasma concentrations of hydroxybupropion occur approximately 6 hours after administration of bupropion hydrochloride extended-release tablets (SR). Peak plasma concentrations of hydroxybupropion are approximately 10 times the peak level of the parent drug at steady state. The elimination half-life of hydroxybupropion is approximately 20 (hours, and its AUC at steady state is about 17 times that of bupropion. The times to peak concentrations for the erythrohydrobupropion and threohydrobupropion metabolites are similar to that of the hydroxybupropion metabolite. However, their elimination half-lives are longer, 33 (and 37 (hours, respectively, and steady-state AUCs are 1.5 and 7 times that of bupropion, respectively.

Bupropion and its metabolites exhibit linear kinetics following chronic administration of 300 to 450

Elimination:Following oral administration of 200 mg of 14C-bupropion in humans, 87% and 10%of the radioactive dose were recovered in the urine and feces, respectively. However, the fraction of the oral dose of bupropion excreted unchanged was only 0.5%, a finding consistent with the extensive metabolism of bupropion.

Population Subgroups:Factors or conditions altering metabolic capacity (e.g., liver disease, Population Subgroups:Factors or conditions altering metabolic capacity (e.g., liver disease, congestive heart failure [CHF], age, concomitant medications, etc.) or elimination may be expected to influence the degree and extent of accumulation of the active metabolites of bupropion. The elimination of the major metabolites of bupropion may be affected by reduced renal or hepatic function because they are moderately polar compounds and are likely to undergo further metabolism or conjugation in the liver prior to urinary excretion.

Hepatic:The effect of hepatic impairment on the pharmacokinetics of bupropion was characterized in 2 single-dose studies, one in patients with alcoholic liver disease and one in patients with while the same content of the prior to the pharmacokinetics of the patic life of the patients with mild the same content of the pharmacokinetics. characterized in 2 single-dose studies, one in patients with alcoholic liver disease and one in patients with mild-to-severe cirrhosis. The first study showed that the half-life of hydroxybupropion was significantly longer in 8 patients with alcoholic liver disease than in 8 healthy volunteers (32hours versus 21hours, respectively). Although not statistically significant, the AUCs for bupropion and hydroxybupropion were more variable and tended to be greater (b 53% to 57%) in patients with alcoholic liver disease. The differences in half-life for bupropion and the other metabolites in the 2 patient groups were minimal.

The second study showed no statistically significant differences in the pharmacokinetics of bupropion and its action metabolites in 0 actions with bild to moderate hearing circulate or second to 9 healthy.

and its active metabolites in 9 patients with mild-to-moderate hepatic cirrhosis compared to 8 healthy volunteers. However, more variability was observed in some of the pharmacokinetic parameters for bupropion (AUC, Cmax, and Tmax) and its active metabolites (tfor hydroxybupropion and about 2for threo/erythrohydrobupropion. The median Tmax was observed 19 hours later for hydroxybupropion and 31 hours later for threo/erythrohydrobupropion. The mean half-lives for hydroxybupropion and threo/erythrohydrobupropion were increased 5- and 2-fold, respectively, in patients with severe hepatic cirrhosis compared to healthy volunteers (see WARNINGS, PRECAUTIONS, and DOSAGE AND ADMINISTRATION)

ADMINISTRATIONS.

Renall:There is limited information on the pharmacokinetics of bupropion in patients with renal impairment. An inter-study comparison between normal subjects and patients with end-stage renal failure demonstrated that the parent drug Cmax and AUC values were comparable in the 2 groups, whereas the hydroxybupropion and threohydrobupropion metabolites had a 2.3- and 2.8-fold increase, respectively, in AUC for patients with end-stage renal failure. A second study, comparing normal subjects and patients with moderate-to-severe renal impairment (GFR 30.910.8 mL/min) showed that exposure to a single 150 mg dose of sustained-release bupropion was approximately 2-fold higher in patients with impaired renal function while levels of the hydroxybupropion and threo/erythrohydrobupropion (combined) metabolites were similar in the 2 groups. The elimination of bupropion and/or the major metabolites of bupropion may be reduced by impaired renal function (see <u>PRECAUTIONS: Renal Impairment).</u> Left Ventricular Dysfunction:During a chronic dosing study with bupropion in 14 depressed patients with left ventricular dysfunction (history of CHF or an enlarged heart on x-ray), no apparent effect on the pharmacokinetics of bupropion or its metabolites was revealed, compared

to healthy volunteers.
Age:PRECAUTIONS: Geriatric Use).

Gender:A single-dose study involving 12 healthy male and 12 healthy female volunteers revealed no sex-related differences in the pharmacokinetic parameters of bupropion. Smokers:

CLINICAL TRAILS

The efficacy of the immediate-release formulation of bupropion as a treatment for depression was established in two 4-week, placebo-controlled trials in adult inpatients with depression and in one 6-week, placebo-controlled trial in adult outpatients with depression. In the first study, patients were titrated in a bupropion dose range of 300 to 600 mg/day on a 3 times daily schedule; 78% of patients received maxmium doses of 450 mg/day or less. This trial demonstrated the effectiveness of the immediate-release formulation of bupropion on the Hamilton Depression Rating Scale (HDRS) total score, the depressed mood item (item1) from that scale, and the Clinical Gobal Impression (CGI) severity score. A second study included 2 fixed doses of the immediate-release formulation of seventy score: A section study included 21Red toolses of the limited table-release formal attorn bupropion (300 and 450 mg/day) and placebo. This trial demonstrated the effectiveness of the immediate-release formultion of bupropion, but only at the 450 mg/day/dose; the results were positive for the HDRS total score and the CGI severity score, but not for HDRS item 1. In the third study, outpatients received 300 mg/day of the immediate-release formulation of bupropion, this study demonstrated the effectiveness of the immediate-release formulation of bupropion on the HDRS total score, HDRS item 1, the Montgomery-Asberg Depression Rating Scale, the CGI severity score, and the CGI improvement score.

Although there are not as yet independent trials demonstrating the antidepressant effectiveness of the sustained-release formulation of bupropion, studies have demonstrated the bioequivalence of the immediate-release and sustained-release forms of bupropion under steady-state conditions, i.e., bupropion sustained-release 150 mg twice daily was shown to be bioequivalent to 100 mg 3 times daily of the immediate-release formulation of bupropion, with regard to both rate and extent of absorption, for parent drug and metabolites.

In a longer-term study, outpatients meeting DSM-IV criteria for major depressive disorder, recurrent type, who had responded during an 8-week open trial on bupropion (150 mg twice daily of the sustained-release formulation) were randomized to continuation of their same dose of bupropion or placebo, for up to 44 weeks of observation for relapse. Response during the open phase was defined as CGI Improvement score of 1 (very much improved) or 2 (much improved) for each of the final 3 weeks. Relapse during the double-blind phase was defined as the investigatorjudgment that drug treatment was needed for worsening depressive symptoms. Patients receiving continued bupropion treatment experienced significantly lower relapse rates over the subsequent 44 weeks compared to those receiving placebo.

INDICATIONS & USAGE

Bupropion hydrochloride extended-release tablets (SR) are indicated for the treatment of major depressive disorder.

The efficacy of bupropion in the treatment of a major depressive episode was established in two 4week controlled trials of depressed inpatients and in one 6-week controlled trial of depressed outpatients whose diagnoses corresponded most closely to the Major Depression category of the APA Diagnostic and Statistical Manual (DSM) (see<u>CLINICAL PHARMACOLOGY).</u>

A major depressive episode (DSM-IV) implies the presence of 1)depressed mood or 2) loss of interest or pleasure; in addition, at least 5 of the following symptoms have been present during the sale 2-week period and represent a change from previous functioning: depressed mood, markedly diminished interest or pleasure in usual activities, significant change in weight and/orappetite, insomina or hypersomnia, psychomotor agitation or retardation, increased fatigue, feelings of guilt or worthlessness, slowed thinking or impaired concentration, a suicide attempt or suicidal ideation.

The efficacy of bupropion in maintaining an antidepressant response for up to 44 weeks following 8 weeks of acute treatment was demonstrated in a placebo-controlled trial (see<u>CLINICAL</u>

PHARMACOLOGY). Nevertheless, the physician who elects to use bupropion hydrochloride extended-release tablets (SR) for extended periods should periodically reevaluate the long-term usefulness of the drug for the individual patient.

CONTRAINDICATIONS

Bupropion hydrochloride extended-release tablets (SR) are contraindicated in patients with a seizure disorder.

Bupropion hydrochloride extended-release tablets (SR) are contraindicated in patients treated with

Bupropion hydrochloride extended-release tablets (SR) are contraindicated in patients with a current or prior diagnosis of bulimia or anorexia nervosa because of a higher incidence of seizures noted in patients treated for bulimia with the immediate-release formulation of bupropion. Bupropion hydrochloride extended-release tablets (SR) are contraindicated in patients undergoing abrupt discontinuation of alcohol or sedatives (including benzodiazeoines).

The concurrent administration of bupropion hydrochloride extended-release tablets (SR) and a monoamine oxidase (MAO) inhibitor is contraindicated. At least 14 days should elapse between discontinuation of an MAO inhibitor and initiation of treatment with bupropion hydrochloride extended-release tablets (SR).

Bupropion hydrochloride extended-release tablets (SR) are contraindicated in patients who have shown an allergic response to bupropion or the other ingredients that make up bupropion hydrochloride extended-release tablets (SR).

WARNINGS

Clinical Worsening and Suicide Risk in Treating Psychiatric Disorders:

Patients with major depressive disorder (MDD), both adult and pediatric, amy experience worsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. There has been a long-standing concern, however, that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment. Pooled analyses of short-term placebo-controlled trials of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults (ages 18 to 24) with major depressive disorder (MD) and other psychiatric disorders. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction with antidepressants compared to placebo in adults ages 65 and older.

The pooled analyses of placebo-controlled trials in children and adolescents with MDD, obsessive compulsive disorder (OCD), or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4,400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 295 short-term trials (median duration of 2 months) of 11 antidepressant drugs in over 77,000 patients. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger patients for almost all drugs studied. There were differences in absolute risk of suicidality across the different indications, with the highest incidence in MDD. The risk differences (drug vs. placebo), however, were relatively stable within age strata and across indications. These risk differences (drug-placebo difference in the number of cases of suicidality per 1,000 patients treated) are provided in Table 1.

Table 1

Age RangeDrug-Placebo Difference in

Number of Cases of Suicidality

per 1,000 Patients TreatedIncreases Compared to Placebo<1814 additional cases18 to 245 additional casesDecreases Compared to Placebo25 to 641 fewer case6 fewer casesNo suicides occurred in any of the pediatric trials. There were suicides in the adult trials, but the number was not sufficient to reach any conclusion about drug effect on suicide.

It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance trials in adults with depression that the use of antidepressants can delay the recurrence of depression.

All patients being treated with antidepressants for any indication should be monitored

All patients being treated with antidepressants for any indication should be monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases.

The following symptoms, anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, and mania, have been reported in adult and pediatric patients being treated with antidepressants for major depressive disorder as well as for other indications, both psychiatric and nonpsychiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of suicidal impulses has not been established, there is concern that such symptoms may represent precursors to emerging suicidality.

Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms. Families and caregivers of patients being treated with antidepressants for major depressive disorder or other indications, both psychiatric and nonpsychiatric, should be alerted about the need to monitor patients for the emergence of agitation, irritability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms immediately to healthcare providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for bupropion hydrochloride extended-

release tablets (SR) should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose.

Neuropsychiatric Symptoms and Suicide Risk in Smoking Cessation

Treatment:Wellbutrinbupropion hydrochloride extended-release tablets (SR), and Wellbutrin XLnot approved for smoking cessation treatment, but bupropion under the name Zybanis approved for this use. Serious neuropsychiatric symptoms have been reported in patients taking bupropion for smoking cessation (see BOXED WARNING, ADVERSE REACTIONS). These have included changes in mood (including depression and mania), psychosis, hallucinations, paranoia, delusions, homicidal ideation, hostility, agitation, aggression, anxiety, and panic, as well as suicidal ideation, suicide attempt, and completed suicide. Some reported cases may have been complicated by the symptoms of nicotine withdrawal in patients who stopped smoking. Depressed mood may be a symptom of nicotine withdrawal. Depression, rarely including suicidal ideation, has been reported in smokers undergoing a smoking cessation attempt without medication. However, some of these symptoms have occurred in patients taking bupropion who continued to smoke. When symptoms were reported, most were during bupropion treatment, but some were following discontinuation of bupropion therapy.

Patients with serious psychiatric illness such as schizophrenia, bipolar disorder, and major depressive

disorder did not participate in the pre-marketing studies of Zyban'
Advise patients and caregivers that the patient using bupropion for smoking cessation should
stop taking bupropion and contact a healthcare provider immediately if agitation, depressed
mood, or changes in behavior or thinking that are not typical for the patient are observed, or if
the patient develops suicidal ideation or suicidal behavior. In many postmarketing cases,
resolution of symptoms after discontinuation of Zybanwas reported, although in some cases the
symptoms persisted, therefore, ongoing monitoring and supportive care should be provided until
symptoms resolve.

The risks of using bupropion for smoking cessation should be weighed against the benefits of its use. Zybanbeen demonstrated to increase the likelihood of abstinence from smoking for as long as six months compared to treatment with placebo. The health benefits of quitting smoking are immediate and substantial.

Screening Patients for Bipolar Disorder:

Bupropion-Containing Products:Patients should be made aware that bupropion hydrochloride extended-release tablets (SR) contain the same active ingredient found in Zybanused as an aid to

smoking cessation treatment, and that bupropion hydrochloride extended-release tablets should not be used in combination with Zybanor any other medications that contain bupropion, such as Wellbutrin(bupropion hydrochloride), the immediate-release formulation or Wellbutrin XL(bupropion hydrochloride), the extended-release formulation.

Seizures: Bupropion is associated with a dose-related risk of seizures. The risk of seizures is also related to patient factors, clinical situations, and concomitant medications, which must be considered in selection of patients for therapy with bupropion hydrochloride extendedrelease tablets (SR). Bupropion hydrochloride extended-release tablets (SR) should be discontinued and not restarted in patients who experience a seizure while on treatment.

Dose: At doses of sustained-release bupropion up to a dose of 300 mg/day, the incidence of

seizure is approximately 0.1% (1/1,000) and increases to approximately 0.4% (4/1,000) at the maximum recommended dose of 400 mg/day.

Data for the immediate-release formulation of bupropion revealed a seizure incidence of approximately 0.4% (i.e., 13 of 3,200 patients followed prospectively) in patients treated at doses in a range of 300 to 450 mg/day. The 450 mg/day upper limit of this dose range is close to the currently recommended maximum dose of 400 mg/day for bupropion hydrochloride extendedrelease tablets (SR). This seizure incidence (0.4%) may exceed that of other marketed antidepressants and bupropion hydrochloride extended-release tablets (SR) up to 300 mg/day by as much as 4-fold. This relative risk is only an approximate estimate because no direct comparative studies have been conducted.

Additional data accumulated for the immediate-release formulation of bupropion suggested that the estimated seizure incidence increases almost tenfold between 450 and 600 mg/day, which is twice the usual adult dose and one and one-half the maximum recommended daily dose (400 mg) of bupropion hydrochloride extended-release tablets (SR). This disproportionate increase in seizure incidence with dose incrementation calls for caution in dosing.

Data for bupropion hydrochloride extended-release tablets (SR) revealed a seizure incidence of approximately 0.1% (i.e., 3 of 3,100 patients followed prospectively) in patients treated at doses in a range of 100 to 300 mg/day. It is not possible to know if the lower seizure incidence observed in this study involving the sustained-release formulation of bupropion resulted from the different formulation or the lower dose used. However, as noted above, the immediate-release and sustained-release formulations are bioequivalent with regard to both rate and extent of absorption during steady state (the most pertinent condition to estimating seizure incidence), since most observed seizures occur under steady-state conditions.

Patient factors: Predisposing factors that may increase the risk of seizure with bupropion use include history of head trauma or prior seizure, central nervous system (CNS) tumor, the presence of severe hepatic cirrhosis, and concomitant medications that lower seizure threshold.

Concomitant medications: Many medications (e.g., antipsychotics, antidepressants theophylline, systemic steroids) are known to lower seizure threshold. Recommendations for Reducing the Risk of Seizure: Retrospective analysis of clinical experience gained during the development of bupropion suggests that the risk of seizure may be minimized

the total daily dose of bupropion hydrochloride extended-release tablets (SR) does not exceed 400 mg,
the daily dose is administered twice daily, and

the rate of incrementation of dose is gradual.

No single dose should exceed 200 mg to avoid high peak concentrations of bupropion and/or its metabolites

Bupropion hydrochloride extended-release tablets (SR) should be administered with extreme caution to patients with a history of seizure, cranial trauma, or other predisposition(s) toward seizure, or patients treated with other agents (e.g., antipsychotics, other antidepressants, theophylline, systemic steroids, etc.) that lower seizure threshold.

Hepatic Impairment: Bupropion hydrochloride extended-release tablets (SR) should be used with extreme caution in patients with severe hepatic cirrhosis. In these patients a reduced frequency and/or dose is required, as peak bupropion, as well as AUC, levels are substantially increased and accumulation is likely to occur in such patients to a greater extent than usual. The dose should not exceed 100 mg every day or 150 mg every other day in these patients (seeCLINICAL PHARMACOLOGY, PRECAUTIONS. andDOSAGE AND ADMINISTRATION). Potential for Hepatotoxicity:In rats receiving large doses of bupropion chronically, there was an increase in incidence of hepatic hyperplastic nodules and hepatocellular hypertrophy. In dogs

receiving large doses of bupropion chronically, various histologic changes were seen in the liver, and laboratory tests suggesting mild hepatocellular injury were noted.

PRECAUTIONS

Agitation and Insomnia:Patients in placebo-controlled trials with bupropion hydrochloride extended-release tablets (SR) experienced agitation, anxiety, and insomnia as shown in Table 2. Table 2. Incidence of Agitation, Anxiety, and Insomnia in Placebo-Controlled Trials

Adverse Event TermBupropion Hydrochloride Sustained-Release Formulation 300 mg/day (n=376)Bupropion Hydrochloride Sustained-Release Formulation 400 mg/day (n=114)

Placebo (n=385)Agitation Anxiety Insomnia3% 11%9% 16%2%

6%In clinical studies, these symptoms were sometimes of sufficient magnitude to require treatment with sedative/hypnotic drugs.

Symptoms were sufficiently severe to require discontinuation of treatment in 1% and 2.6% of patients treated with 300 and 400 mg/day, respectively, of bupropion hydrochloride extended-release tablets (SR) and 0.8% of patients treated with placebo.

Psychosis, Confusion, and Other Neuropsychiatric Phenomena:Depressed patients treated with an immediate-release formulation of bupropion or with bupropion hydrochloride extendedrelease tablets (SR) have been reported to show a variety of neuropsychiatric signs and symptoms, including delusions, hallucinations, psychosis, concentration disturbance, paranoia, and confusion. In some cases, these symptoms abated upon dose reduction and/or withdrawal of treatment.

Activation of Psychosis and/or Mania:Antidepressants can precipitate manic episodes in bipolar disorder patients during the depressed phase of their illness and may activate latent psychosis in other susceptible patients. The sustained-release formulation of bupropion is expected to pose

Altered Appetite and Weight:In placebo-controlled studies, patients experienced weight gain or as shown in Table 3

Table 3. Incidence of Weight Gain and Weight Loss in Placebo-Controlled Trials

Sustained-Release Formulation 300 mg/day (n=339)Bupropion Hydrochloride Sustained-Release Formulation 400 mg/day (n=112)

Placebo (n=347)Gained >5 lbs Lost >5 lbs

3% 14%

19%

6%In studies conducted with the immediate-release formulation of bupropion, 35% of patients receiving tricyclic antidepressants gained weight, compared to 9% of patients treated with the immediate-release formulation of bupropion. If weight loss is a major presenting sign of a patientdepressive illness, the anorectic and/or weight-reducing potential of bupropion hydrochloride extended-release tablets (SR) should be considered.

Allergic Reactions: Anaphylactoid/anaphylactic reactions characterized by symptoms such as pruritus, urticaria, angioedema, and dyspnea requiring medical treatment have been reported in clinical trials with bupropion. In addition, there have been rare spontaneous postmarketing reports of erythema multiforme, Stevens-Johnson syndrome, and anaphylactic shock associated with bupropion. A patient should stop taking bupropion hydrochloride extended-release tablets (SR) and consult a doctor if experiencing allergic or anaphylactoid/anaphylactic reactions (e.g., skin rash, pruritus, hives, chest pain, edema, and shortness of breath) during treatment. Arthralgia, myalgia, and fever with rash and other symptoms suggestive of delayed hypersensitivity have been reported in association with bupropion. These symptoms may resemble serum sickness.

Cardiovas cular Effects:

In clinical practice, hypertension, in some cases severe, requiring acute treatment, has been reported in patients receiving bupropion alone and in combination with nicotine replacement therapy. These events have been observed in both patients with and without evidence of preexisting hypertension. Data from a comparative study of the sustained-release formulation of bupropion (ZybanSustained-Release Tablets), nicotine transdermal system (NTS), the combination of sustained-release bupropion plus NTS, and placebo as an aid to smoking cessation suggest a higher incidence of treatment-emergent hypertension in patients treated with the combination of sustained-release bupropion and NTS. In this study, 6.1% of patients treated with the combination of sustained-release bupropion and NTS had treatment-emergent hypertension compared to 2.5%, 1.6%, and 3.1% of patients treated with sustainedrelease bupropion, NTS, and placebo, respectively. The majority of these patients had evidence of preexisting hypertension. Three patients (1.2%) treated with the combination of Zybanand NTS and 1 patient (0.4%) treated with NTS had study medication discontinued due to hypertension compared to none of the patients treated with Zybanor placebo. Monitoring of blood pressure is recommended in patients who receive the combination of bupropion and nicotine replacement.

There is no clinical experience establishing the safety of bupropion hydrochloride extended-release tablets (SR) in patients with a recent history of myocardial infarction or unstable heart disease. Therefore, care should be exercised if it is used in these groups. Bupropion was well tolerated in depressed patients who had previously developed orthostatic hypotension while receiving tricyclic antidepressants, and was also generally well tolerated in a group of 36 depressed inpatients with stable congestive heart failure (CHF). However, bupropion was associated with a rise in supine blood pressure in the study of patients with CHF, resulting in discontinuation of treatment in 2 patients for xacerbation of baseline hypertension

Hepatic Impairment:Bupropion hydrochloride extended-release tablets (SR) should be used with extreme caution in patients with severe hepatic cirrhosis. In these patients, a reduced frequency and/or dose is required. Bupropion hydrochloride extended-release tablets (SR) should be used with caution in patients with hepatic impairment (including mild-to-moderate hepatic cirrhosis) and reduced frequency and/or dose should be considered in patients with mild-to-moderate henatic cirrhosis

All patients with hepatic impairment should be closely monitored for possible adverse effects that could indicate high drug and metabolite levels (seeCLINICAL PHARMACOLOGY, WARNINGS, andDOSAGE AND ADMINISTRATION).

Renal Impairment:

There is limited information on the pharmacokinetics of bupropion in patients with renal impairment. An inter-study comparison between normal subjects and patients with end-stage renal failure demonstrated that the parent drug Cmax and AUC values were comparable in the 2 groups, whereas the hydroxybupropion and threohydrobupropion metabolites had a 2.3- and 2.8-fold increase, respectively, in AUC for patients with end-stage renal failure. A second study, comparing normal subjects and patients with moderate-to-severe renal impairment (GFR 30.910.8 ml/min) showed that exposure to a single 150 mg dose of sustained-release bupropion was approximately 2-fold higher in patients with impaired renal function while levels of the hydroxybupropion and threo/erythrohydrobupropion (combined) metabolites were similar in the 2 groups. Bupropion is extensively metabolized in the liver to active metabolites, which are further metabolized and subsequently excreted by the kidneys. Bupropion hydrochloride extended-release tablets (SR) should be used with caution in patients with renal impairment and a reduced frequency and/or dose should be considered as bupropion and the metabolites of bupropion may accumulate in such patients to a greater extent than usual. The patient should be closely monitored for possible adverse effects that could indicate high drug or metabolite

INFORMATION FOR PATIENTS

Prescribers or other health professionals should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with bupropion hydrochloride extended-release tablets (SR) and should counsel them in its appropriate use. A patient Medication Guide aboutMedicines, Depression and Other Serious Mental Illnesses, and Suicidal Thoughts or Actions module about the Depression and Other Serious Mental Illnesses, and Suicidal Thoughts or Actions Smoking, Quit-Smoking Medication, Changes in Thinking and Behavior, Depression, and Suicidal Thoughts or Actions, and Other Important Information Should I Know About bupropion hydrochloride extended-release tablets (SR)?" is available for bupropion hydrochloride extended-release tablets (SR). The prescriber or health professional should instruct patients, their families, and their caregivers to read the Medication Guide and should assist them in understanding its contents. Patients should be given the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have. The complete text of the Medication Guide is reprinted at the end of this document.

Patients should be advised of the following issues and asked to alert their prescriber if these occur

while taking bupropion hydrochloride extended-release tablets (SR).

Clinical Worsening and Suicide Risk in Treating Psychiatric Disorders:Patients, their families, and their caregivers should be encouraged to be alert to the emergence of anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, mania, other unusual changes in behavior, worsening of depression, and suicidal ideation, especially early during antidepressant treatment and when the dose is adjusted up or down. Families and caregivers of patients should be advised to look for the emergence of such symptoms on a day-to-day basis, since changes may be abrupt. Such symptoms should be reported to the patientprescriber or health professional, especially if they are severe, abrupt in onset, or were not part of the patientpresenting symptoms. Symptoms such as these may be associated with an increased risk for suicidal thinking and behavior and indicate a need for very close monitoring and possibly changes in the medication.

Neuropsychiatric Symptoms and Suicide Risk in Smoking Cessation Treatment:Although

bupropion hydrochloride extended-release tablets (SR) are not indicated for smoking cessation treatment, it contains the same active ingredient as Zybanwhich is approved for this use. Patients should be informed that quitting smoking, with or without Zybanmay be associated with nicotine withdrawal symptoms (including depression or agitation), or exacerbation of pre-existing psychiatric illness. Furthermore, some patients have experienced changes in mood (including depression and mania), psychosis, hallucinations, paranoia, delusions, homicidal ideation, aggression, anxiety, and panic, as well as suicidal ideation, suicide attempt, and completed suicide when attempting to quit smoking while taking ZybanIf patients develop agitation, hostility, depressed mood, or changes in thinking or behavior that are not typical for them, or if patients develop suicidal ideation or behavior, they should be urged to report these symptoms to their healthcare provider immediately.

Bupropion-Containing Products:Patients should be made aware that bupropion hydrochloride extended-release tablets (SR) contain the same active ingredient found in Zybanused as an aid to smoking cessation treatment, and that bupropion hydrochloride extended-release tablets should not be used in combination with Zybanor any other medications that contain bupropion hydrochloride (such as Wellbutrinthe immediate-release formulation and Wellbutrin XLthe extended-release formulation).

As dose is increased during initial titration to doses above 150 mg/day, patients should be instructed to take bupropion hydrochloride extended-release tablets (SR) in 2 divided doses, preferably with at least 8 hours between successive doses, to minimize the risk of seizures.

Patients should be told that bupropion hydrochloride extended-release tablets (SR) should be

discontinued and not restarted if they experience a seizure while on treatment.

Patients should be told that any CNS-active drug like bupropion hydrochloride extended-release tablets

(SR) may impair their ability to perform tasks requiring judgment or motor and cognitive skills.

Consequently, until they are reasonably certain that bupropion hydrochloride extended-release tablets (SR) do not adversely affect their performance, they should refrain from driving an automobile or operating complex, hazardous machinery.

Patients should be told that the excessive use or abrupt discontinuation of alcohol or sedatives (including benzodiazepines) may alter the seizure threshold. Some patients have reported lower alcohol tolerance during treatment with bupropion hydrochloride extended-release tablets (SR). Patients should be advised that the consumption of alcohol should be minimized or avoided.

Patients should be advised to inform their physicians if they are taking or plan to take any prescription or

over-the-counter drugs. Concern is warranted because bupropion hydrochloride extended-releas tablets (SR) and other drugs may affect each othermetabolism.

Patients should be advised to notify their physicians if they become pregnant or intend to become pregnant during therapy.

Pregions using metapy.

Patients should be advised to swallow bupropion hydrochloride extended-release tablets (SR) whole so that the release rate is not altered. Do not chew, divide, or crush tablets, as this may lead to an increased risk of adverse effects, including seizures.

LABORATORY TESTS

There are no specific laboratory tests recommended.

DRUG INTERACTIONS

Few systemic data have been collected on the metabolism of bupropion following concomitant administration with other drugs or, alternatively, the effect of concomitant administration of bupropion on the metabolism of other drugs. Because bupropion is extensively metabolized, the coadministration of other drugs may affect its

clinical activity. In vitro studies indicate that bupropion is primarily metabolized to hydroxybupropion by the CYP2B6 isoenzyme. Therefore, the potential exists for a drug interaction between bupropion and drugs that are substrates of or inhibitors/inducers of the CYP2B6 isoenzyme (e.g., orphenadrine, thiotepa, cyclophosphamide, ticlopidine, and clopidogrel). In addition, in vitro studies suggest that paroxetine, sertraline, norfluoxetine, and fluvoxamine as well as nelfinavir and efavirenz inhibit the hydroxylation of bupropion. No clinical studies have been performed to evaluate this finding. The inyutoxyration o uppropriot. No Clinical studies have been performed to evaluate this finding. I ne threohydrobupropion metabolite of bupropion does not appear to be produced by the cytochrome P450 isoenzymes. The effects of concomitant administration of clinetidine on the pharmacokinetics of bupropion and its active metabolites were studied in 24 healthy young male volunteers. Following oral administration of two 150 mg bupropion hydrochloride extended-release tablets (SR) with and without 800 mg of climetidine, the pharmacokinetics of bupropion and hydroxybupropion were unaffected. However, there were 16% and 32% increases in the AUC and Cmax, respectively, of the combined moieties of threohydrobupropion and erythrohydrobupropion.

In a series of studies in healthy volunteers, ritonavir (100 mg twice daily or 600 mg twice daily) or ritonavir 100 mg plus lopinavir (KALETRA) 400 mg twice daily reduced the exposure of bupropion and its major metabolites in a dose dependent manner by approximately 20% to 80%. This effect is thought to be due to the induction of bupropion metabolism. Patients receiving ritonavir may need increased doses of bupropion, but the maximum recommended dose of bupropion should not be

exceeded (see CLINICAL PHARMACOLOGY: Metabolism).
While not systematically studied, certain drugs may induce the metabolism of bupropion (e.g.,

carbamazepine, phenobarbital, phenytoin).
Multiple oral doses of bupropion had no statistically significant effects on the single dose

pharmacokinetics of lamotrigine in 12 healthy volunteers. Animal data indicated that bupropion may be an inducer of drug-metabolizing enzymes in humans. In one study, following chronic administration of bupropion, 100 mg 3 times daily to 8 healthy male volunteers for 14 days, there was no evidence of induction of its own metabolism. Nevertheless, there may be the potential for clinically important alterations of blood levels of coadministered drugs.

Drugs Metabolized By Cytochrome P450IID6 (CYP2D6):Many drugs, including most antidepressants (SSRIs, many tricyclics), beta-blockers, antiarrhythmics, and antipsychotics are metabolized by the CYP2D6 is oenzyme. Although bupropion is not metabolized by this isoenzyme, bupropion and hydroxybupropion are inhibitors of CYP2D6 isoenzyme in vitro. In a study of 15 male subjects (ages 19 to 35 years) who were extensive metabolizers of the CYP2D6 isoenzyme, daily doses of bupropion given as 150 mg twice daily followed by a single dose of 50 mg desipramine increased the Cmax, AUC, and tof desipramine by an average of approximately 2-, 5-, and 2-fold, respectively. The effect was present for at least 7 days after the last dose of bupropion. Concomitant use of bupropion with other drugs metabolized by CYP2D6 has not been formally studied.

Therefore, coadministration of bupropion with drugs that are metabolized by CYP2D6 isoenzyme including certain antidepressants (e.g., nortriptyline, imipramine, desipramine, paroxetine, fluoxetine, sertraline), antipsychotics (e.g., haloperidol, risperidone, thioridazine), beta-blockers (e.g., metoprolol), and Type 1C antiarrhythmics (e.g., propafenone, flecainide), should be approached with caution and should be initiated at the lower end of the dose range of the concomitant medication. If bupropion is added to the treatment regimen of a patient already receiving a drug metabolized by CYP2D6, the need to decrease the dose of the original medication should be considered, particularly for those concomitant medications with a narrow therapeutic index. Although citalopram is not primarily metabolized by CYP2D6, in one study bupropion increased the Cmax and AUC of citalopram by 30% and 40%, respectively. Citalopram did not affect the pharmacokinetics of bupropion and its three metabolites

MAO Inhibitors:Studies in animals demonstrate that the acute toxicity of bupropion is enhanced by the MAO inhibitor phenelzine (see<u>CONTRAINDICATIONS).</u>
Levodopa and Amantadine:Limited clinical data suggest a higher incidence of adverse

experiences in patients receiving bupropion concurrently with either levodopa or amantadine. Administration of bupropion hydrochloride extended-release tablets (SR) to patients receiving either levodopa or amantadine concurrently should be undertaken with caution, using small initial doses and gradual dose increases.

Drugs That Lower Seizure Threshold:Concurrent administration of bupropion hydrochloride

extended-release tablets (SR) and agents (e.g., antipsychotics, other antidepressants, theophylline, systemic steroids, etc.) that lower seizure threshold should be undertaken only with extreme caution (see WARNINGS). Low initial dosing and gradual dose increases should be employed.

Nicotine Transdermal System:(see<u>PRECAUTIONS: Cardiovascular Effects).</u>
Alcohol:In postmarketing experience, there have been rare reports of adverse neuropsychiatric events or reduced alcohol tolerance in patients who were drinking alcohol during treatment with bupropion extended-release tablets (SR). The consumption of alcohol during treatment with bupropion extended-release tablets (SR) should be minimized or avoided (also seeCONTRAINDICATIONS).

CARCINOGENESIS & MUTAGENESIS & IMPAIRMENT OF FERTILITY

Lifetime carcinogenicity studies were performed in rats and mice at doses up to 300 and 150 mg/kg/day, respectively. These doses are approximately 7 and 2 times the maximum recommended human dose (MRHD), respectively, on a mg/m² basis. In the rat study there was an increase in nodular proliferative lesions of the liver at doses of 100 to 300 mg/kg/day (approximately 2 to 7 times the MRHD at basis); lower doses were not tested. The question of whether or not such lesions may be precursors of neoplasms of the liver is currently unresolved. Similar liver lesions were not seen in the mouse study, and no increase in malignant tumors of the liver and other organs was seen in either study. Bupropion produced a positive response (2 to 3 times control mutation rate) in 2 of 5 strains in the Ames bacterial mutagenicity test and an increase in chromosomal aberrations in 1 of 3 in vivo rat bone marrow cytogenetic studies.

A fertility study in rats at doses up to 300 mg/kg/day revealed no evidence of impaired fertility.

Teratogenic Effects:

Pregnancy Category C. In studies conducted in rats and rabbits, bupropion was administered orally at doses up to 450 and 150 mg/kg/day, respectively (approximately 11 and 7 times the maximum recommended human dose [MRHD], respectively, on a mg/m2 basis), during the period of organogenesis. No clear evidence of teratogenic activity was found in either species; however, in rabbits, slightly increased incidences of fetal malformations and skeletal variations were observed at the lowest dose tested (25 mg/kg/day, approximately equal to the MRHD on a mg/m2 basis) and greater. Decreased fetal weights were seen at 50 mg/kg and greater.

When rats were administered bupropion at oral doses of up to 300 mg/kg/day (approximately 7 times the

MRHD on a mg/m² basis) prior to mating and throughout pregnancy and lactation, there were no apparent adverse effects on offspring development. One study has been conducted in pregnant women. This retrospective, managed-care database study assessed the risk of congenital malformations overall, and cardiovascular malformations specifically,

following exposure to bupropion in the first trimester compared to the risk of these malformations following exposure to other antidepressants in the first trimester and bupropion outside of the first trimester. This study included 7,005 infants with antidepressant exposure during pregnancy, 1,213 of whom were exposed to bupropion in the first trimester. The study showed no greater risk for congenital malformations overall, or cardiovascular malformations specifically, following first trimester bupropion exposure compared to exposure to all other antidepressants in the first trimester, or bupropion outside of the first trimester. The results of this study have not been corroborated. Bupropion hydrochloride extended-release tablets (SR) should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

LABOR & DELIVERY

The effect of bupropion hydrochloride extended-release tablets (SR) on labor and delivery in humans is unknown.

NURSING MOTHERS

Like many other drugs, bupropion and its metabolites are secreted in human milk. Because of the potential for serious adverse reactions in nursing infants from bupropion hydrochloride extended-release tablets (SR), a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

PEDIATRIC USE

Safety and effectiveness in the pediatric population have not been established (see<u>BOX</u> WARNINGandWARNINGS: Clinical Worsening and Suicide Risk in Treating Psychiatric Disorders). Anyone considering the use of bupropion in a child or adolescent must balance the potential risks with the clinical need.

Of the approximately 6,000 patients who participated in clinical trials with bupropion sustained-release tablets (depression and smoking cessation studies), 275 were 65 and over and 47 were 75 and over. In addition, several hundred patients 65 and over participated in clinical trials using the immediate-release formulation of bupropion (depression studies). No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.
A single-dose pharmacokinetic study demonstrated that the disposition of bupropion and its metabolites

in elderly subjects was similar to that of younger subjects; however, another pharmacokinetic study, single and multiple dose, has suggested that the elderly are at increased risk for accumulation of bupropion and its metabolitesCLINICAL PHARMACOLOGY).

Bupropion is extensively metabolized in the liver to active metabolites, which are further metabolized and excreted by the kidneys. The risk of toxic reaction to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function (see<u>PRECAUTIONS:</u>
Renal ImpairmentandDOSAGE AND ADMINISTRATION).

ADVERSE REACTIONS

(See alsoWARNINGSandPRECAUTIONS.)

The information included under the Incidence in Controlled Trials subsection of ADVERSE REACTIONS is based primarily on data from controlled clinical trials with bupropion hydrochloride extended-release tablets (SR). Information on additional adverse events associated with the sustained-release formulation of bupropion in smoking cessation trials, as well as the immediate-release formulation of bupropion, is included in a separate section (see Other Events Observed During the Clinical Development and Postmarketing Experience of Bupropion).

Incidence in Controlled Trials With Bupropion:
Adverse Events Associated With Discontinuation of Treatment Among Patients Treated With

Bupropion Hydrochloride Extended-Release Tablets (SR):In placebo-controlled clinical trials, 9% and 11% of patients treated with 300 and 400 mg/day, respectively, of bupropion hydrochloride extended-release tablets (SR) and 4% of patients treated with placebo discontinued treatment due to adverse events. The specific adverse events in these trials that led to discontinuation in at least 1% of patients treated with either 300 mg/day or 400 mg/day of bupropion hydrochloride extended-release tablets (SR) and at a rate at least twice the placebo rate are listed in Table 4.

Table 4. Treatment Discontinuations Due to Adverse Events in Placebo-Controlled Trials

Adverse Event TermBupropion Hydrochloride Sustained-Release Formulation 300 mg/day (n=376)Bupropion Hydrochloride Sustained-Release Formulation 400 mg/day (n=114)

Placebo (n=385)Rash Nausea Agitation Migraine2.4% 0.8% 0.3% 0.0%0.9% 1.8%

1.8%0.0% 0.3%

0.3%

0.3%Adverse Events Occurring at an Incidence of 1% or More Among Patients Treated With Bupropion Hydrochloride Extended-Release Tablets (SR):Table 5 enumerates treatmentemergent adverse events that occurred among patients treated with 300 and 400 mg/day of bupropion hydrochloride extended-release tablets (SR) and with placebo in placebo-controlled trials. Events that occurred in either the 300- or 400-mg/day group at an incidence of 1% or more and were more frequent than in the placebo group are included. Reported adverse events were classified using a COSTART-based Dictionary.

Accurate estimates of the incidence of adverse events associated with the use of any drug are difficult

to obtain. Estimates are influenced by drug dose, detection technique, setting, physician judgments, etc. The figures cited cannot be used to predict precisely the incidence of untoward events in the course of usual medical practice where patient characteristics and other factors differ from those that prevailed in the clinical trials. These incidence figures also cannot be compared with those obtained from other clinical studies involving related drug products as each group of drug trials is conducted under a different set of conditions

Finally, it is important to emphasize that the tabulation does not reflect the relative severity and/or clinical importance of the events. A better perspective on the serious adverse events associated with the use of bupropion hydrochloride extended-release tablets (SR) is provided in the WARNINGS and PRECAUTIONS sections.

Table 5. Treatment-Emergent Adverse Events in Placebo-Controlled Trials*

Body System/ Adverse EventBupropion Hydrochloride Sustained-Release Formulation 300 mg/day (n=376)Bupropion Hydrochloride Sustained-Release Formulation 400 mg/day (n=114)

(n=385)* Adverse events that occurred in at least 1% of patients treated with either 300 or 400 mg/day of bupropion hydrochloride extended-release tablets (SR), but equally or more frequently in the placebo group, were: abnormal dreams, accidental injury, acne, appetite increased, back pain, bronchitis, dysmenorrhea, dyspepsia, flatulence, flu syndrome, hypertension, neck pain, respiratory disorder, rhinitis, and tooth disorder.Incidence based on the number of female patients. Hyphen denotes adverse events occurring in greater than 0 but less than 0.5% of patients.Body (General)Headache26%25%23%Infection8%9%6%Abdominal pain3%9%2%Asthenia2%4%2%Chest

pain3964/8198Pain2%3%2%Fever1%2%-CardiovascularPalpitation2%6%2%Flushing1%4%Migraine1%4%1%Hot flashes1%3%1%DigestiveDry
mouth17%24%7%Nausea13%18%8%Constipation10%5%7%Diarrhea5%7%6%Anorexia5%3%2%Vomiting4%2%2%Dysphagia0%2%0%MusculoskeletalMyalgia2%6%3%Arthralgia1%4%1%Arthritis0%2%0%Twitch1%2%-

systemInsomnia11%16%6%Dizziness7%11%5%Agitation3%9%2%Anxiety5%6%3%Tremor6%3%1%Nervousness5%3%3%Somnolence2%3%2%Irritability3%2%2%Memory

decreased-3%1%Paresthesia1%2%1%Central nervoussystem stimulation2%1%1%RespiratoryPharyngitis3%11%2%Sinusitis3%1%2%Increased

cough1%2%1%SkinSweating6%5%2%Rash5%4%1%Pruritus2%4%2%Urticaria2%1%0%Special sensesTimitus6%6%2%Taste perversion2%4%-Blurred vision or

diplopia3%2%2%UrogenitalUrinary frequency2%5%2%Urinary urgency-2%0%Vaginal hemorrhage0%2%-Urinary tract infection1%0%-Incidence of Commonly Observed Adverse Events

in Controlled Clinical Trials Adverse events from Table 5 occurring in a tleast 5% of patients treated with bupropion hydrochloride extended release tablets (SR) and at a rate at least twice the placebo rate are listed below for the 300- and 400-mg/day dose groups.

Bupropion Extended-release Tablets (SR) 300 mg/day:Anorexia, dry mouth, rash, sweating, tinnitus, and tremor.

Bupropion Extended-release Tablets (SR) 400 mg/day:Abdominal pain, agitation, anxiety, dizziness, dry mouth, insomnia, myalgia, nausea, palpitation, pharyngitis, sweating, tinnitus, and

Other Events Observed During the Clinical Development and Postmarketing Experience of

In addition to the adverse events noted above, the following events have been reported in clinical trials and postmarketing experience with the sustained-release formulation of bupropion in depressed patients and in nondepressed smokers, as well as in clinical trials and postmarketing clinical experience with the immediate-release formulation of bupropion.

Adverse events for which frequencies are provided below occurred in clinical trials with the sustained-release formulation of bupropion. The frequencies represent the proportion of patients who experienced a treatment-emergent adverse event on at least one occasion in placebo-controlled studies for depression (n = 987) or smoking cessation (n = 1,013), or patients who experienced an adverse event requiring discontinuation of treatment in an open-label surveillance study with bupropion hydrochloride extended-release tablets (SR) (n = 3,100). All treatment-emergent adverse events are included except those listed in Tables 2 through 5, those events listed in other safety-related sections, those adverse events surveillance to the safety related sections. be uninformative, those events not reasonably associated with the use of the drug, and those events that were not serious and occurred in fewer than 2 patients. Events of major clinical importance are described in the WARNINGS and PRECAUTIONS sections of the labeling.

Events are further categorized by body system and listed in order of decreasing frequency according to the following definitions of frequency: Frequent adverse events are defined as those occurring in at least 1/100 patients. Infrequent adverse events are those occurring in 1/100 to 1/1,000 patients, while rare events are those occurring in less than 1/1,000 patients.

Adverse events for which frequencies are not provided occurred in clinical trials or postmarketing experience with bupropion. Only those adverse events not previously listed for sustained-release bupropion are included. The extent to which these events may be associated with bupropion is unknown.

Body (General):Infrequent were chills, facial edema, musculoskeletal chest pain, and photosens itivity. Rare was malaise. Also observed were arthralgia, myalgia, and fever with rash and other symptoms suggestive of delayed hypersensitivity. These symptoms may resemble

serum sickness (see<u>PRECAUTIONS).</u> Cardiovascular:Infrequent were postural hypotension, stroke, tachycardia, and vasodilation. Rare was syncope. Also observed were complete atrioventricular block, extrasystoles, hypotension, hypertension (in some cases severe, see PRECAUTIONS), myocardial infarction, phlebitis, and pulmonary embolism.

Digestive:Infrequent were abnormal liver function, bruxism, gastric reflux, gingivitis, glossitis, puges uve:intrequent were abnormal liver tunction, bruxism, gastric reflux, gingivitis, glossitis, increased salivation, jaundice, mouth ulcers, stomatitis, and thirst. Rare was edema of tongue. Also observed were colitis, esophagitis, gastrointestinal hemorrhage, gum hemorrhage, hepatitis, intestinal perforation, liver damage, pancreatitis, and stomach ulcer. Endocrine:Also observed were hyperglycemia, hypoglycemia, and syndrome of inappropriate

Hemic and Lymphatic:Infrequent was ecchymosis. Also observed were anemia, leukocytosis, leukopenia, lymphadenopathy, pancytopenia, and thrombocytopenia. Altered PT and/or INR, infrequently associated with hemorrhagic or thrombotic complications, were observed when

bupropion was coadministered with warfarin. Metabolic and Nutritional:Infrequent were edema and peripheral edema. Also observed was glycos uria.

Musculoskeletal:Infrequent were leg cramps. Also observed were muscle

rigidity/lever/rhabdomyolysis and muscle weakness. Nervous System:Infrequent were abnormal coordination, decreased libido, depersonalization, dysphoria, emotional lability, hostility, hyperkinesia, hypertonia, hypesthesia, suicidal ideation, and vertigo. Rare were amnesia, ataxia, derealization, and hypomania. Also observed were abnormal electroencephalogram (EEG), akinesia, aggression, aphasia, coma, completed suicide, delirium, delusions, dysarthria, dyskinesia, dystonia, euphoria, extrapyramidal syndrome, hallucinations, hypokinesia, increased libido, manic reaction, neuralgia, neuropathy, paranoid ideation, restlessness, suicide attempt, and unmasking tardive dyskinesia. Respiratory:Rare was bronchospasm. Also observed was pneumonia.

Skin:Rare was maculopapular rash. Also observed were alopecia, angioedema, exfoliative dermatitis, and hirsutism.

Special Senses:Infrequent were accommodation abnormality and dry eye. Also observed were

deafness, diplopia, increased intraocular pressure, and mydriasis.

Urogenital:Infrequent were impotence, polyuria, and prostate disorder. Also observed were abnormal ejaculation, cystitis, dyspareunia, dysuria, gynecomastia, menopause, painful erection, salpingitis, urinary incontinence, urinary retention, and vaginitis.

DRUG ABUSE AND DEPENDENCE

Controlled Substance Class:Bupropion is not a controlled substance.

Humans:Controlled clinical studies of bupropion (immediate-release formulation) conducted in normal volunteers, in subjects with a history of multiple drug abuse, and in depressed patients showed some increase in motor activity and agitation/excitement.

In a population of individuals experienced with drugs of abuse, a single dose of 400 mg of bupropion produced mild amphetamine-like activity as compared to placebo on the Morphine-Benzedrine Subscale of the Addiction Research Center Inventories (ARCI), and a score intermediate between placebo and amphetamine on the Liking Scale of the ARCI. These scales measure general feelings of euphoria and drug desirability.

Findings in clinical trials, however, are not known to reliably predict the abuse potential of drugs. Nonetheless, evidence from single-dose studies does suggest that the recommended daily dosage of bupropion when administered in divided doses is not likely to be especially reinforcing to amphetamine or stimulant abusers. However, higher doses that could not be tested because of the risk of seizure might be modestly attractive to those who abuse stimulant drugs.

Animals:Studies in rodents and primates have shown that bupropion exhibits some pharmacologic actions common to psychostimulants. In rodents, it has been shown to increase locomotor activity, elicit a mild stereotyped behavioral response, and increase rates of responding in several schedule-controlled behavior paradigms. In primate models to assess the positive reinforcing effects of psychoactive drugs, bupropion was self-administered intravenously. In rats, bupropion produced amphetamine-like and cocaine-like discriminative stimulus effects in drug discrimination paradigms used to characterize the subjective effects of psychoactive drugs.

OVERDOSAGE

Human Overdose Experience:Overdoses of up to 30 g or more of bupropion have been reported. Seizure was reported in approximately one-third of all cases. Other serious reactions reported with overdoses of bupropion alone included hallucinations, loss of consciousness, sinus tachycardia, and ECG changes such as conduction disturbances (including QRS prolongation) or arrhythmias. Fever, muscle rigidity, rhabdomyolysis, hypotension, stupor, coma, and respiratory failure have been reported mainly when bupropion was part of multiple drug

Although most patients recovered without sequelae, deaths associated with overdoses of bupropion alone have been reported in patients ingesting large doses of the drug. Multiple uncontrolled seizures, bradycardia, cardiac failure, and cardiac arrest prior to death were reported in these patients.

Overdosage Management:Ensure an adequate airway, oxygenation, and ventilation. Monitor cardiac rhythm and vital signs. EEG monitoring is also recommended for the first 48 hours postingestion. General supportive and symptomatic measures are also recommended. Induction of emesis is not recommended.

Activated charcoal should be administered. There is no experience with the use of forced diuresis, dialysis, hemoperfusion, or exchange transfusion in the management of bupropion overdoses. No specific antidotes for bupropion are known.

Due to the dose-related risk of seizures with bupropion hydrochloride extended-release tablets (SR), hospitalization following suspected overdose should be considered. Based on studies in animals, it is recommended that seizures be treated with intravenous benzodiazepine administration and other supportive measures, as appropriate.

supportive measures, as appropriate.

In managing overdosage, consider the possibility of multiple drug involvement. The physician should consider contacting a poison control center for additional information on the treatment of any overdose. Telephone numbers for certified poison control centers are listed in the PhysiciansDesk Reference

DOSAGE & ADMINISTRATION

General Dosing Considerations: It is particularly important to administer bupropion hydrochloride extended-release tablets (SR) in a manner most likely to minimize the risk of seizure (see WARNINGS). Gradual escalation in dosage is also important if agitation, motor restlessness, and insomnia, often seen during the initial days of treatment, are to be minimized. If necessary, these effects may be managed by temporary reduction of dose or the short-term administration of an intermediate to long-acting sedative hypnotic. A sedative hypnotic usually is not required beyond the first week of treatment. Insomnia may also be minimized by avoiding bedtime doses. If distressing, untoward effects supervene, dose escalation should be stopped. Bupropion hydrochloride extended-release tablets (SR) should be swallowed whole and not crushed, divided, or chewed, as this may lead to increased risk of adverse effects including

Initial Treatment:The usual adult target dose for bupropion hydrochloride extended-release tablets (SR) is 300 mg/day, given as 150 mg twice daily. Dosing with bupropion hydrochloride extended-release tablets (SR) should begin at 150 mg/day given as a single daily dose in the morning. If the 150 mg initial dose is adequately tolerated, an increase to the 300 mg/day target dose, given as 150 mg twice daily, may be made as early as day 4 of dosing. There should be an interval of at least 8 hours between successive doses.

Increasing the Dosage Above 300 mg/day: As with other antidepressants, the full antidepressant effect of bupropion hydrochloride extended-release tablets (SR) may not be evident until 4 weeks of treatment or longer. An increase in dosage to the maximum of 400 mg/day, given as 200 mg twice daily, may be considered for patients in whom no clinical improvement is noted after several weeks of treatment at 300 mg/day.

Maintenance Treatment:It is generally agreed that acute episodes of depression require several months or longer of sustained pharmacological therapy beyond response to the acute episode. In a study in which patients with major depressive disorder, recurrent type, who had responded during 8 weeks of acute treatment with bupropion hydrochloride extended-release tablets (SR) were assigned randomly to placebo or to the same dose of bupropion hydrochloride extended-release tablets (SR) (150 mg twice daily) during 44 weeks of maintenance treatment as they had received during the acute stabilization phase, longer-term efficacy was demonstrated (seeCLINICAL TRIALSunderCLINICAL PHARMACOLOGY). Based on these limited data, it is unknown whether or not the dose of bupropion hydrochloride extended-release tablets (SR) needed for maintenance treatment is identical to the dose needed to achieve an initial response. Patients should be periodically reassessed to determine the need for maintenance treatment and the appropriate dose for such treatment.

Dosage Adjustment for Patients with Impaired Hepatic Function:Bupropion hydrochloride

extended-release tablets (SR) should be used with extreme caution in patients with severe hepatic cirrhosis. The dose should not exceed 100 mg every day or 150 mg every other day in these patients. Bupropion hydrochloride extended-release tablets (SR) should be used with caution in patients with hepatic impairment (including mild-to-moderate hepatic cirrhosis) and a reduced frequency and/or dose should be considered in patients with mild-to-moderate hepatic cirrhosis (see CLINICAL PHARMACOLOGY, WARNINGS, and PRECAUTIONS).

Dosage Adjustment for Patients with Impaired Renal Function:Bupropion hydrochloride extended-release tablets (SR) should be used with caution in patients with renal impairment and a reduced frequency and/or dose should be considered (see<u>CLINICAL</u> PHARMACOLOGYandPRECAUTIONS).

HOW SUPPLIED

Bupropion hydrochloride extended-release tablets (SR), 100 mg of bupropion hydrochloride, are white to off-white, round, film-coated tablets with WPI over 858 in bottles of 60 tablets (NDC 0591-3540-

60), 100 tablets (NDC 0591-3540-01) and 500 tablets (NDC 0591-3540-05). Bupropion hydrochloride extended-release tablets (SR), 150 mg of bupropion hydrochloride, are white to off-white, round, film-coated tablets with WPIover839in bottles of 60 tablets (NDC 0591-3541-60), 100 tablets (NDC 0591-3541-101), 250 tablets (NDC 0591-3541-25) and 500 tablets (NDC 0591-3541-05).

Bupropion hydrochloride extended-release tablets (SR), 200 mg of bupropion hydrochloride, are white to off-white, round, film-coated tablets with WPIover 3385 in bottles of 60 tablets (NDC 0591-3542-60), 100 tablets (NDC 0591-3542-01) and 500 tablets (NDC 0591-3542-05).

STORAGE AND HANDLING

Store at 20to 25(68to 77[See USP Controlled Room Temperature]. Dispense in a tight, light-resistant container as defined in the USP.

MEDICATION GUIDE

BuPROPion Hydrochloride Extended-release Tablets USP (SR)

Read this Medication Guide carefully before you start using bupropion hydrochloride extended-release tablets (SR) and each time you get a refill. There may be new information. This information does not take the place of talking with your doctor about your medical condition or your treatment. If you have any questions about bupropion hydrochloride extended-release tablets (SR), ask your doctor of pharmacist.

lother important information should I know about bupropion hydrochloride extended-release tablets (SR)?

Antidepressant Medicines, Depression and Other Serious Mental Illnesses, and Suicidal Thoughts or Actions

This section of the Medication Guide is only about the risk of suicidal thoughts and actions with antidepressant medicines. Talk to your, or your family memberhealthcare provider about:

all risks and benefits of treatment with antidepressant medicines all treatment choices for depression or other serious mental illness

What is the most important information I should know about antidepressant medicines,

depression and other serious mental illnesses, and suicidal thoughts or actions?

1.Antidepressant medicines may increase suicidal thoughts or actions in some children, teenagers, and young adults within the first few months of treatment.

2.Depression and other serious mental illnesses are the most important causes of suicidal

thoughts and actions. Some people may have a particularly high risk of having suicidal thoughts or actions. These include people who have (or have a family history of) bipolar illness (also called manic-depressive illness) or suicidal thoughts or actions.

3. How can I watch for and try to prevent suicidal thoughts and actions in myself or a family

member?

Pay close attention to any changes, especially sudden changes, in mood, behaviors, thoughts, or feelings. This is very important when an antidepressant medicine is started or when the dose i

changed.

Call the healthcare provider right away to report new or sudden changes in mood, behavior, thoughts, or feelings.

Keep all follow-up visits with the healthcare provider as scheduled. Call the healthcare

provider between visits as needed, especially if you have concerns about symptom

Call a healthcare provider right away if you or your family member has any of the following

symptoms, especially if they are new, worse, or worry you: thoughts about suicide or dying

attempts to commit suicide new or worse depression new or worse anxiety

feeling very agitated or restless panic attacks

trouble sleeping (insomnia)

new or worse irritability

acting aggressive, being angry, or violent acting on dangerous impulses

an extreme increase in activity and talking (mania) other unusual changes in behavior or mood

What else do I need to know about antidepressant medicines?

Never stop an antidepressant medicine without first talking to a healthcare provider.Stopping an antidepressant medicine suddenly can cause other symptoms.

Antidepressants are medicines used to treat depression and other illnesses. It is important to discuss all the risks of treating depression and also the risks of not treating it. Patients and their families or other caregivers should discuss all treatment choices with the healthcare provider, not just the use of antidepressants.

Antidepressant medicines have other side effects. Talk to the healthcare provider about the side effects of the medicine prescribed for you or your family member.

Antidepress and medicine prescribed for you or your family member.

Antidepress and medicines can interact with other medicines. Know all of the medicines that you or your family member takes. Keep a list of all medicines to show the healthcare provider. Do not start new medicines without first checking with your healthcare provider.

Not all antidepress and medicines prescribed for children are FDA approved for use in children. Talk to your childhealthcare provider for more information.

Bupropion hydrochloride extended-release tablets (SR) have not been studied in children under the age of 18 and are not approved for use in children and teenagers.

Ouiting Smoking, Ouits. Smoking Medications. Changes in Thinking and Pelavior Depression.

Quitting Smoking, Quit-Smoking Medications, Changes in Thinking and Behavior, Depression, and Suicidal Thoughts or Actions

This section of the Medication Guide is only about the risk of changes in thinking and behavior, depression and suicidal thoughts or actions with drugs used to quit smoking.

Although bupropion hydrochloride extended-release tablets (SR) are not a treatment for quitting smoking, it contains the same active ingredient (bupropion hydrochloride) as Zybanwhich is used to help

patients quit smoking.

Some people have had changes in behavior, hostility, agitation, depression, suicidal thoughts or actions while taking bupropion to help them quit smoking. These symptoms can develop during treatment with

bupropion or after stopping treatment with bupropion.

If you, your family member, or your caregiver notice agitation, hostility, depression, or changes in thinking or behavior that are not typical for you, or you have any of the following symptoms, stop taking bupropion and call your healthcare provider right away:

thoughts about suicide or dying

attempts to commit suicide new or worse depression

new or worse anxiety

panic attacks

feeling very agitated or restless

acting aggressive, being angry, or violent

acting on dangerous impulses an extreme increase in activity and talking (mania)

abnormal thoughts or sensations seeing or hearing things that are not there (hallucinations)

feeling people are against you (paranoia) feeling confused

other unusual changes in behavior or mood

When you try to quit smoking, with or without bupropion, you may have symptoms that may be due to

nicotine withdrawal, including urge to smoke, depressed mood, trouble sleeping, irritability, frustration, anger, feeling anxious, difficulty concentrating, restlessness, decreased heart rate, and increased appetite or weight gain. Some people have even experienced suicidal thoughts when trying to quit smoking without medication. Sometimes quitting smoking can lead to worsening of mental health problems that you already have, such as depression.

Before taking bupropion, tell your healthcare provider if you have ever had depression or other mental

illnesses. You should also tell your doctor about any symptoms you had during other times you tried to quit smoking, with or without bupropion.

What Other Important Information Should I Know About Bupropion Hydrochloride Extendedrelease Tablets (SR)?

Seizures: There is a chance of having a seizure (convulsion, fit) with bupropion hydrochloride extended-release tablets (SR), especially in people:

with certain medical problems.

who take certain medicines.

The chance of having seizures increases with higher doses of bupropion hydrochloride extendedrelease tablets (SR). For more information, see the sections should not take bupropion hydrochloride extended-release tablets (SR)?and should I tell my doctor before using bupropion hydrochloride extended-release tablets (SR);Trell your doctor about all of your medical conditions and all the medicines you take. Do not take any other medicines while you are using bupropion hydrochloride extended-release tablets (SR) unless your doctor has said it is okay to take them. If you have a seizure while taking bupropion hydrochloride extended-release tablets (SR), stop taking the tablets and call your doctor right away.Do not take bupropion hydrochloride extended-release tablets. release tablets (SR) again if you have a seizure.

High blood pressure (hypertension). Some people get high blood pressure, that can be severe, while taking bupropion hydrochloride extended-release tablets (SR). The chance of high blood pressure may be higher if you also use nicotine replacement therapy (such as a nicotine patch) to help you stop smoking.

Severe allergic reactions. Some people have severe allergic reaction to bupropion

hydrochloride extended-release tablets (SR). Stop taking bupropion hydrochloride extended-release tablets (SR) and call your doctor right awayif you get a rash, itching, hives, fever, swollen lymph glands, painful sores in the mouth or around the eyes, swelling of the lips or tongue, chest pain, or have trouble breathing. These could be signs of a serious allergic reaction.

Unusual thoughts or behaviors.Some patients have unusual thoughts or behaviors while taking bupropion hydrochloride extended-release tablets (SR), including delusions (believe you are someone else), hallucinations (seeing or hearing things that are not there), paranoia (feeling that people are against you), or feeling confused. If this happens to you, call your doctor. What are bupropion hydrochloride extended-release tablets (SR)?

Bupropion hydrochloride extended-release tablets (SR) are a prescription medicine used to treat adults with a certain type of depression called major depressive disorder.

Who should not take bupropion hydrochloride extended-release tablets (SR)? Do not take bupropion hydrochloride extended-release tablets (SR) if you:

have or had a seizure disorder or epilepsy.

are taking Zyban(used to help people stop smoking) or any other medicines that contain bupropion hydrochloride, such as WellbutrinTablets or WellbutrinXLExtended-Release Tablets.Bupropion is the same active ingredient that is in bupropion hydrochloride extendedrelease tablets (SR).

drink a lot of alcohol and abruptly stop drinking, or use medicines called sedatives (these make you

sleepy) or benzodiazepines and you stop using them all of a sudden.
have taken within the last 14 days medicine for depression called a monoamine oxidase inhibitor
(MAOI), such as Nardil(phenelzine sulfate), Parnate(tranylcypromine sulfate), or Marplan(isocarboxazid).
have or had an eating disorder such as anorexia nervosa or bulimia.

are allergic to the active ingredient in bupropion hydrochloride extended-release tablets (SR), bupropion, or to any of the inactive ingredients. See the end of this leaflet for a complete list of ingredients in bupropion hydrochloride extended-release tablets (SR).

What should I tell my doctor before using bupropion hydrochloride extended-release tablets (SR)?

Tell your doctor if you have ever had depression, suicidal thoughts or actions, or other mental health problems. SeeMedicines, Depression and Other Serious Mental Illnesses, and Suicidal Thoughts or

Tell your doctor about your other medical conditions including if you:

are pregnant or plan to become pregnant.It is not known if bupropion hydrochloride extended-release tablets (SR) can harm your unborn baby.

are breastfeeding.Bupropion passes through your milk. It is not known if bupropion can harm your baby.

have liver problems, especially cirrhosis of the liver.

have kidney problems.
have an eating disorder such as anorexia nervosa or bulimia. have had a head injury.

have had a seizure (convulsion, fit).

have a tumor in your nervous system (brain or spine). have had a heart attack, heart problems, or high blood pressure.

are a diabetic taking insulin or other medicines to control your blood sugar. drink a lot of alcohol.

abuse prescription medicines or street drugs

Tell your doctor about all the medicines you take, including prescription and non- prescription medicines, vitamins, and herbal supplements. Many medicines increase your chances of having seizures or other serious side effects if you take them while you are using bupropion hydrochloride extended-release tablets (SR).

How should I take bupropion hydrochloride extended-release tablets (SR)?

Take bupropion hydrochloride extended-release tablets (SR) exactly as prescribed by your doctor.

Do not chew, cut, or crush bupropion hydrochloride extended-release tablets (SR).If you do, the medicine will be released into your body too quickly. If this happens you may be more likely to get side effects including seizures. You must swallow the tablets whole. Tell your doctor if you cannot swallow medicine tablets.

Take hupropion hydrochloride extended-release tablets (SR) at the same time each day.

Take your doses of bupropion hydrochloride extended-release tablets (SR) at least 8 hours apart.

You may take bupropion hydrochloride extended-release tablets (SR) with or without food.

If you miss a dose, do not take an extra tablet to make up for the dose you forgot. Wait and take your next tablet at the regular time. This is very important. Too many bupropion hydrochloride extendedrelease tablets (SR) can increase your chance of having a seizure.

If you take too many bupropion hydrochloride extended-release tablets (SR), or overdose, call your

local emergency room or poison control center right away.

Do not take any other medicines while using bupropion hydrochloride extended-release tablets (SR) unless your doctor has told you it is okay.

It may take several weeks for you to feel that bupropion hydrochloride extended-release tablets (SR)

are working. Once you feel better, it is important to keep taking bupropion hydrochloride extended-release tablets (SR) exactly as directed by your doctor. Call your doctor if you do not feel bupropion

hydrochloride extended-release tablets (SR) are working for you.

Do not change your dose or stop taking bupropion hydrochloride extended-release tablets (SR) without talking with your doctor first.

What should I avoid while taking bupropion hydrochloride extended-release tablets (SR)?

Do not drink a lot of alcohol while taking bupropion hydrochloride extended-release tablets (SR). If you usually drink a lot of alcohol, talk with your doctor before suddenly stopping. If you suddenly stopping alcohol, you may increase your chance of having seizures.

Do not drive a car or use heavy machinery until you know how bupropion hydrochloride extended-release tablets (SR) affect you. Bupropion hydrochloride extended-release tablets (SR) can impair your ability to perform these tasks.

What are possible side effects of bupropion hydrochloride extended-release tablets (SR)?
Bupropion hydrochloride extended-release tablets (SR) can cause serious side effects. Read this entire

Medication Guide for more information about these serious side effects.

The most common side effects of bupropion hydrochloride extended-release tablets (SR) are loss of

appetite, dry mouth, skin rash, sweating, ringing in the ears, shakiness, stomach pain, agitation, anxiety,

dizziness, trouble sleeping, muscle pain, nausea, fast heartbeat, sore throat, and urinating more often. If you have nausea, take your medicine with food. If you have trouble sleeping, do not take your medicine too close to bedtime.

These are not all the side effects of bupropion hydrochloride extended-release tablets (SR). For a complete list, ask your doctor or pharmacist.
Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-

How should I store bupropion hydrochloride extended-release tablets (SR)?

Store bupropion hydrochloride extended-release tablets (SR) at room temperature. Store out of direct sunlight. Keep bupropion hydrochloride extended-release tablets (SR) in their tightly closed

Bupropion hydrochloride extended-release tablets (SR) may have an odor

General Information about bupropion hydrochloride extended-release tablets (SR).

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use bupropion hydrochloride extended-release tablets (SR) for a condition for which it was not prescribed. Do not give bupropion hydrochloride extended-release tablets (SR) to other people, even if they have the same symptoms you have. It may harm them. Keep bupropion hydrochloride extended-

release tablets (SR) out of the reach of children.

This Medication Guide summarizes important information about bupropion hydrochloride extended-release tablets (SR). For more information, talk with your doctor. You can ask your doctor or pharmacist for information about bupropion hydrochloride extended-release tablets (SR) that is written for health professionals.

What are the ingredients in bupropion hydrochloride extended-release tablets (SR)?

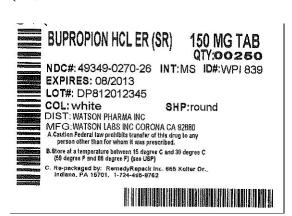
Active ingredient: bupropion hydrochloride. Inactive ingredients: hydroxypropyl cellulose, microcrystalline cellulose, colloidal silicon dioxide, stearic acid, magnesium stearate, and diluted hydrochloric acid. The film coating contains lactose monohydrate, hydroxypropyl cellulose, titanium dioxide, and polyethylene glycol. *The following are registered trademarks of their respective manufacturers: Zyban

This Medication Guide has been approved by the U.S. Food and Drug Administration.

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL SECTION

DRUG: Bupropion Hydrochloride GENERIC: BUPROPION HYDROCHLORIDE DOSAGE: TABLET, EXTENDED RELEASE

ADMINSTRATION: ORAL NDC: 49349-270-26 STRENGTH:150 mg COLOR: white SHAPE: ROUND SCORE: No score SIZE: 11 mm IMPRINT: 250 QTY: 250







	Administration		ORAL	DEA Sched	ule				
Active 1	ngredient/Ac	tive Moiet	y						
Ingredient Name						Basis of Strength			Strength
BUPRO PION HYDRO CHLO RIDE (UNII: ZG7E5PO Y8O) (BUPRO UNII: 0 1ZG3TPX31)				PROPION -		BUPROPION HYDROCHLORIDE 150 mg			150 mg
Inactive	Ingredients								
Ingredient Name								Strength	
HYDRO XYPRO PYL CELLULO SE (UNII: RFW2ET671P)									
CELLULO	SE, MICROCRY	STALLINE (U	JNII: OP1R32D61U)						
COLLOI	DAL SILICON DI	O XIDE (UNII:	ETJ7Z6XBU4)						
STEARIC	ACID (UNII: 4ELV	/7Z65AP)							
MAGNES	UM STEARATE ((UNII: 70097M	16130)						
HYDRO C	HLORIC ACID (U	NII: QTT1758	2CB)						
LACTOS	E MONO HYDRA	re (unii: ewq	(57Q8I5X)						
	M DIO XIDE (UNII:	15FIX9 V2 IP)							
TITANIU		. 101 110 (201)							
	IYLENE GLYCO		(0SDW1A)						
			(0SDW1A)						
POLYETI	IYLENE GLYCO	L (UNII: 3WJQ	(0SDW1A)						
POLYETI		L (UNII: 3WJQ	Q0SDW1A)						
POLYETI	IYLENE GLYCO	L (UNII: 3WJQ	(0SDW1A)			Score		n	o score
Polyeti	t Characterist	L (UNII: 3WJQ	(0SDWIA) FENDED RELEASE)			Score Size			o score Imm
POLYETI Product Color	t Characterist	L (UNII: 3WJQ					ode	1	
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Product Color Shape Flavor Contains Packag	t Characterist white ROUND (L (UNII: 3WJQ tics (TABLET, EXT	FENDED RELEASE)	Marketi	ng Start	Size Imprint C		1 V	1mm VPI;839
Product Color Shape Flavor Contains Packag	t Characterist white ROUND (L (UNII: 3WJQ tics (TABLET, EXT	rended release) ge Description	Marketi	ng Start	Size Imprint C		1 V	1mm VPI;839
Product Color Shape Flavor Contains Packag	t Characterist white ROUND (L (UNII: 3WJQ tics (TABLET, EXT	rended release) ge Description	Marketi	ng Start	Size Imprint C		1 V	1mm VPI;839
Product Color Shape Flavor Contains Packag # 1 NDC:49	t Characterist white ROUND (ing tem Code 349-270-26	tics (TABLET, EXT	rended release) ge Description	Marketi	ng Start	Size Imprint C		1 V	1mm VPI;839
Product Color Shape Flavor Contains Packag # 1 NDC:49	tem Code 349-270-26	tics (TABLET, EXT Packa 250 in 1 BL	rended release) ge Description			Size Imprint C	Mark	veting I	1mm VPI;839

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